Multiplexer Priority:
1 - Debug/DFT IP
2 - Exception/Fault re-steer
3 - Branch mispredict re-steer
4 - '1' bubble branch re-steer
5 - '0' bubble branch re-steer
6 - Sequential IP (IP+1)

Figure 1

Prior Art

Figure 2
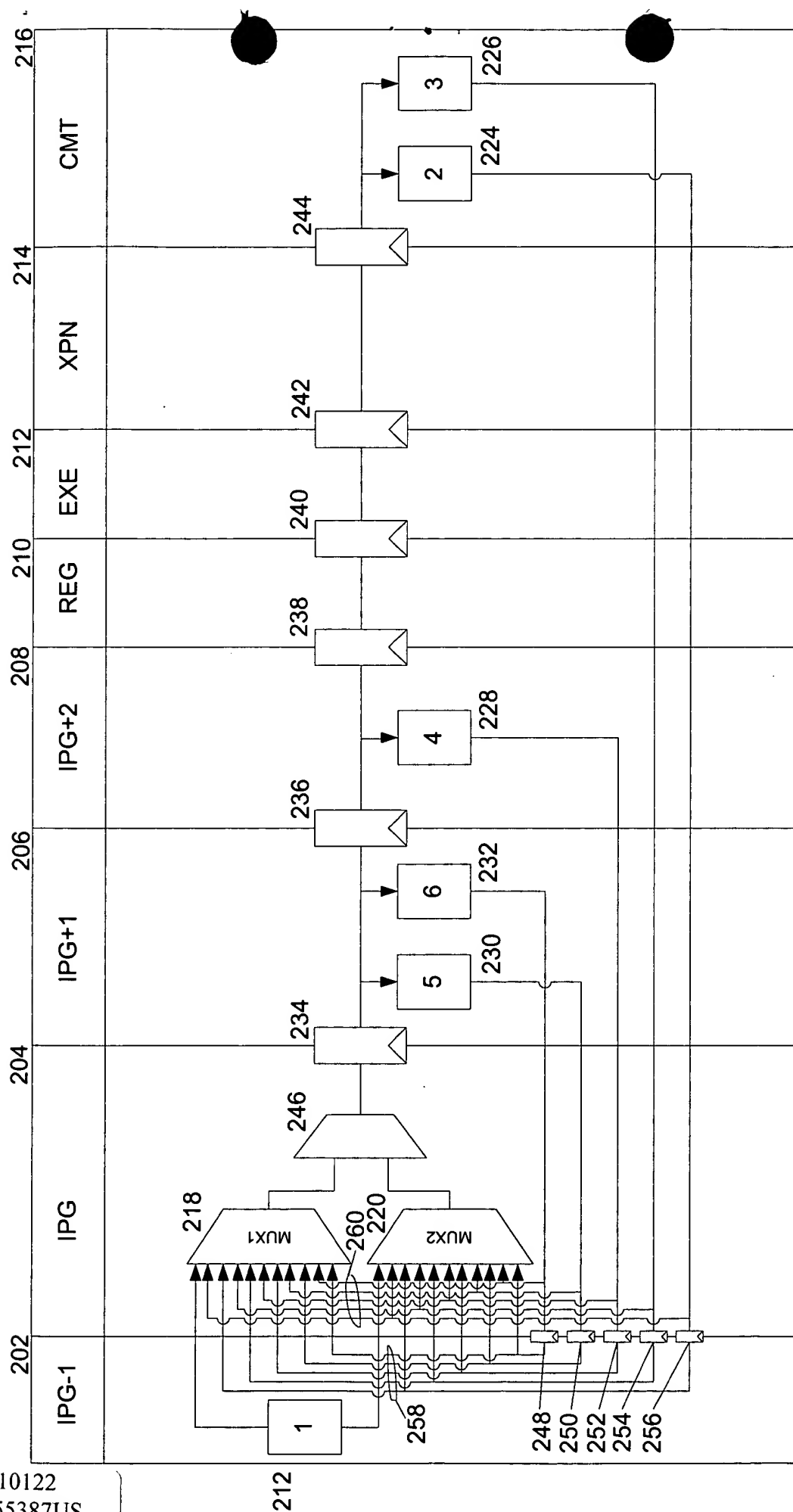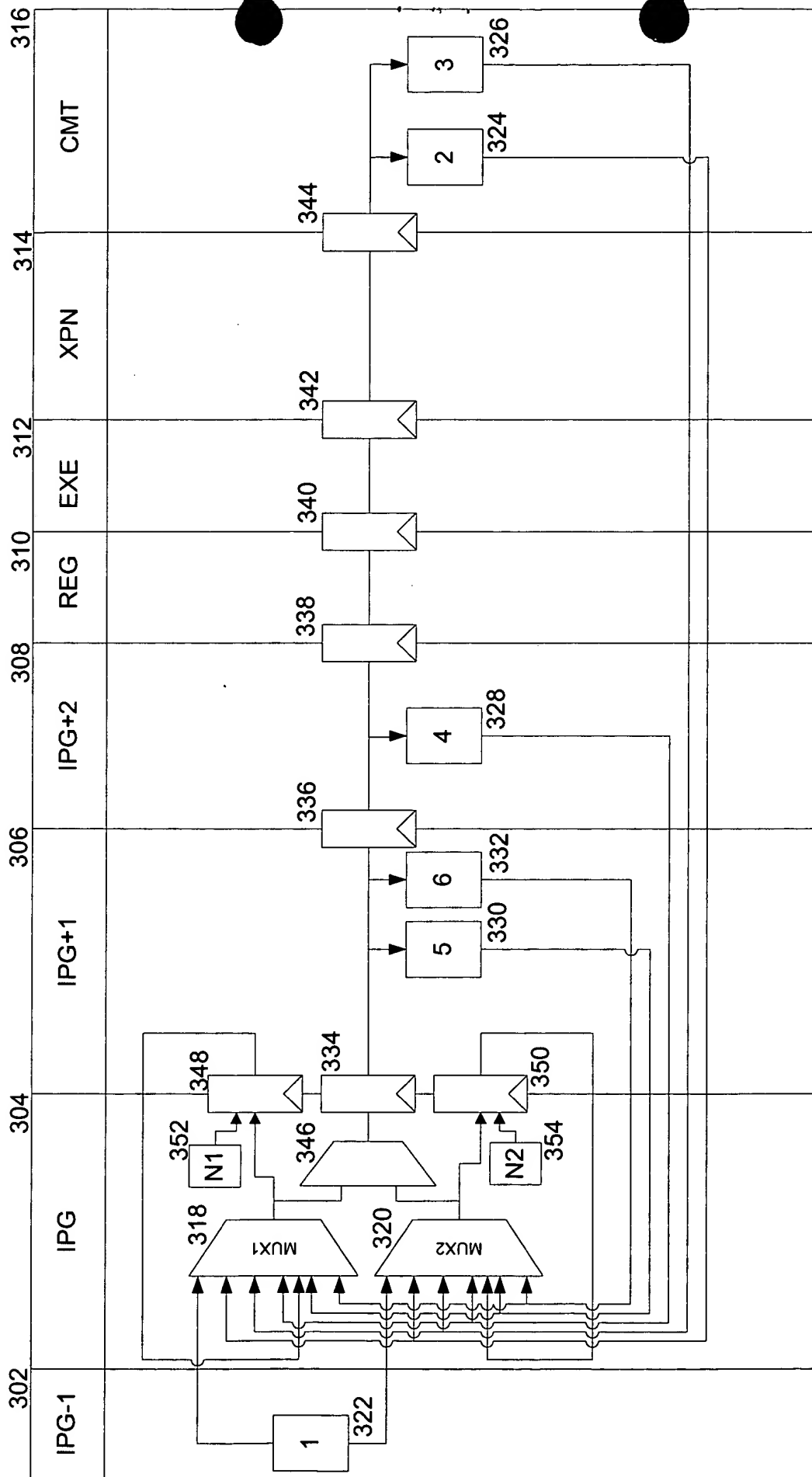
Prior Art

Multiplexer Priority:
1 - Debug/DFT IP
2 - Exception/Fault re-steer
3 - Branch mispredict re-steer
4 - '1' bubble branch re-steer
5 - '0' bubble branch re-steer
6 - Sequential IP (IP+1)

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Figure 3

Multiplexer Priority:
1 - Debug/DFT IP
2 - Exception/Fault re-steer
3 - Branch mispredict re-steer
4 - '1' bubble branch re-steer
N1/N2 - Inactive thread re-steer
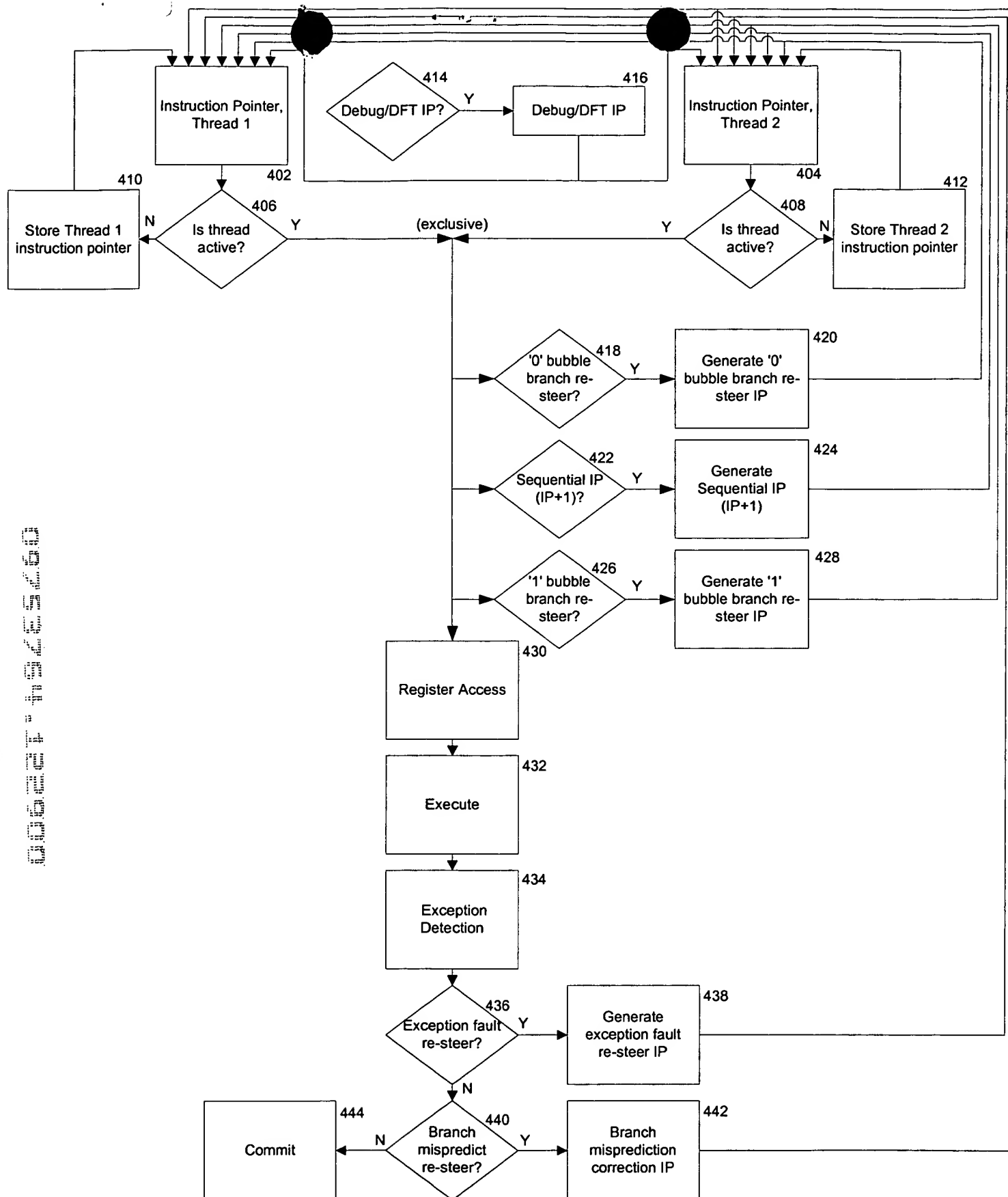5 - '0' bubble branch re-steer
6 - Sequential IP (IP+1)

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Figure 4